

EDCON-COMPONENTS



Anti Surge Melf Resistor (Non Inductive Type)

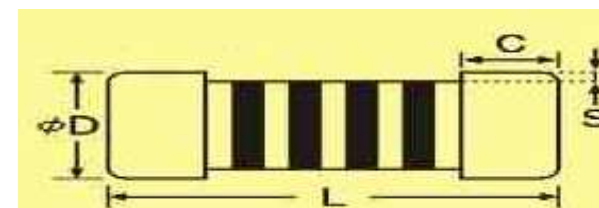
Characteristics

| Item | Characteristics | Test Method |
|------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Operating Temp. Range | . -55°C ~ 155°C | |
| Temperature Coefficient | . +/- 100ppm 200ppm, 500ppm, 1000ppm/°C | JIS-C 5202; 5,2 |
| Load Life Humidity | . +/- 5% | 40°C +/- 2°C, 90%~95% R, 1000h, 1,5h "on" / 0,5h "off" cycle |
| Load Life | . +/- 5% | 70°C +/- 2°C, 1000h, 1,5h "on" / 0,5h "off" cycle |
| Resistance to Soldering heat | . +/- 2% | 260°C +/- 5sec, 5sec +/- 1 sec |
| Solderability | 90% Coverage Min. | 235°C +/- 5sec, 2sec +/- 0,5 sec |
| Bending test | . +/- 1% | Holding point width 90mm, Bending 5mm, 1 time |
| Anti-Surge Characteristic | . +/- 5% | Voltage of $\sqrt{(2xPxRxT/x)}$ room temperature. Number of cycles: 10000 |
| Non-Combustibility | The resistor shall withstand Overload test in accordance with Article UL-94, V-0 without producing a fire hazard. | |

Technical Informations

| Serie | Size | Dimensions (mm) | | | S | |
|--------|------|-----------------|--------------|--------------|---------------|-----|
| | | L | D | C | Max | Min |
| X23038 | 0309 | 9,5 / +/-0,3 | 3,6 / +/-0,3 | 2,2 / +/-0,2 | 0,4 / +/- 0,1 | |

Technical Drawing Case



Packing Informations

| Serie | Size | Tape/Reel | Bulk | Carton |
|--------|------|-----------|-------|--------|
| X23038 | 0309 | 2000PCS | ----- | ----- |

Anti Surge Melf Resistor Size 0309

Part No.: **X23038**

Customer:

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 10.04.2009 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 1 from 4 |

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Range Specification Value

| Serie | Size | Ordering Code Power | Power Rating | Resistance Range | Tolerance | Max. Surge Voltage |
|--------|------|------------------------|--------------|-----------------------|-------------------|-----------------------|
| X23038 | 0309 | D | 1,0W | 1,0 Ohm ~ 2,2K Ohm | 5% / 10% / 20% | 200V |

**Anti Surge Melf Resistor
Size 0309**

Part No.: **X23038**

| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 10.04.2009 | Customer: |
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Ordering Informations

| Serie | Range Code | Ordering Power Code | T.C.R Code | Tolerance Code | ROHS | Packing Code | | | | |
|---------------|------------|---------------------|------------|----------------|----------|--------------|--|--|--|--|
| X23038 | 102 | D | 1 | M | R | TR20 | | | | |

| | | | | | |
|-------------------------------------------------------|----------------|-----------------------|------------------------|----------------------------------|-----------------------------------|
| 102= 1,0K Resistance Range look table | D= 1,0W | 1= +/- 100ppm | J= Tol. +/-5% | R= ROHS Conform | TR20= Tape Reel 2000PCS |
| | | 2= +/- 200ppm | K= Tol. +/- 10% | N= NON ROHS | |
| | | 3= +/- 500ppm | M= Tol. +/- 20% | BU05= Bulk Ware 500PCS | |
| | | 4= +/- 1000ppm | | | |

| | |
|-----------------------------------------------|---------------|
| Anti Surge Melf Resistor Size 0309 | |
| Part No.: | X23038 |
| Customer: | |

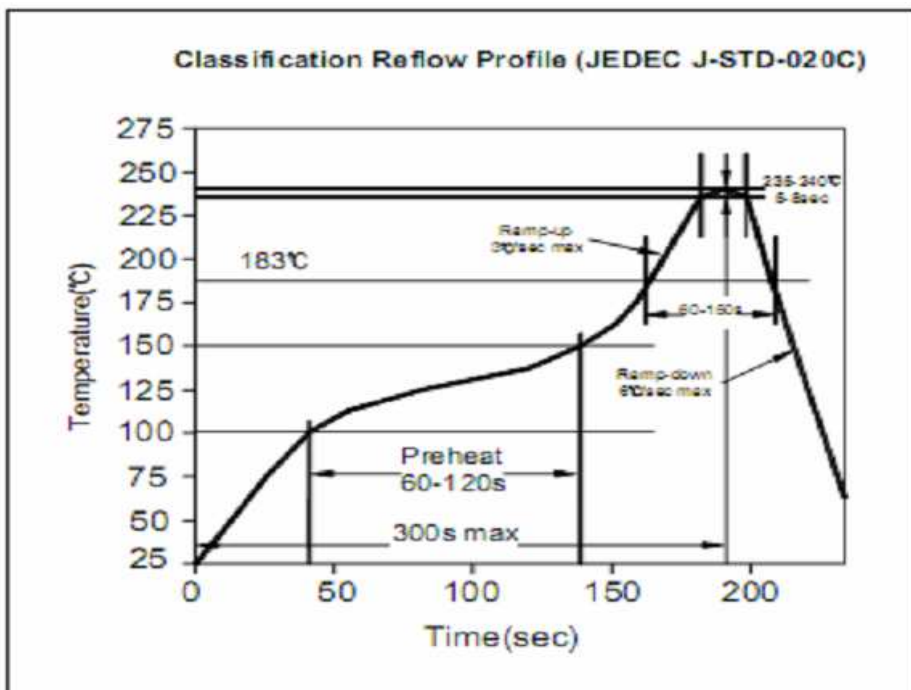
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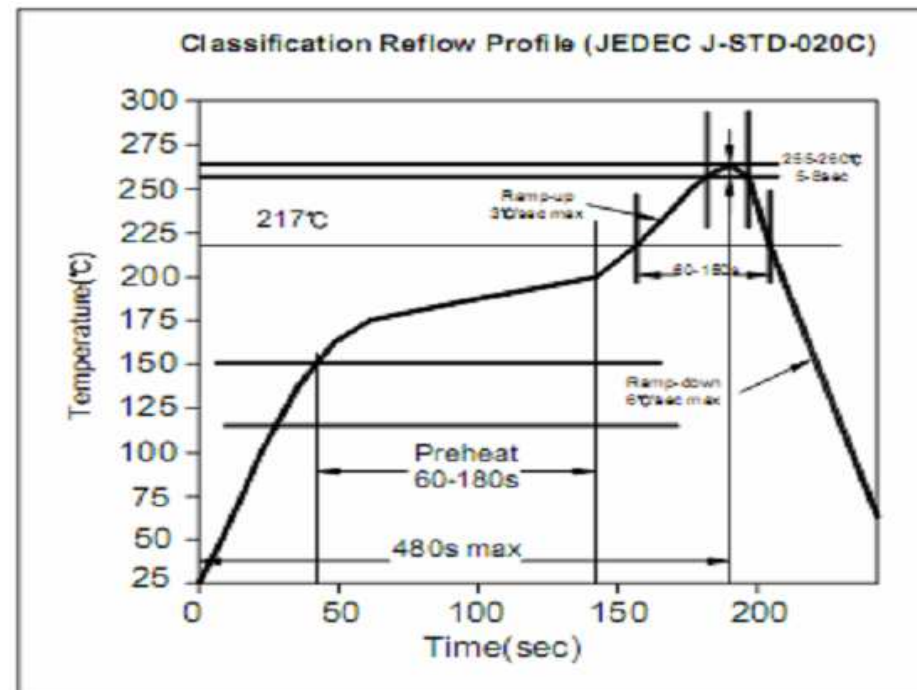


Soldering Profile Curve

Soldering Profile for Lead Soldering



Soldering Profile for Lead Free Soldering



**Anti Surge Melf Resistor
Size 0309**

Part No.: **X23038**

| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 10.04.2009 | Customer: |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | 4 from 4 | | |